

INCREASING POWER OUT IN THE 2510

This will be your new ground-to-receive wire. Now locate the mic jack in the front of the radio and find the two small chokes that have been added at the factory on the small PC board. These are on pins four and five that control the channel up and down buttons on the stock microphone. You want to remove the one on pin five at the pin, taping shut the end that is freed. Now, you can take the speaker wire you have removed and solder the free end to pin five. Pin five now becomes the ground-to-receive pin. Once you have completed these modifications in the guts of the radio, you can now wire up a mic. The following example is for a D104 or other Astatic microphone. A Turner microphone would be wired in the same way EXCEPT you swap the red and blue wires.

PIN 1: the WHITE wire (audio)

PIN 2: the BLUE and SHIELD wires (command and ground)

PIN 3: the RED wire (ground to TX)

PIN 4: no connection

PIN 5: the BLACK wire (ground to RX)

Turner + 3B to HR-2510

PIN 1: WHITE (audio)

PIN 2: RED and SHIELD

PIN 3: BLUE (TX)

PIN 4: no connection

PIN 5: BLACK (RX)

Now the HR2510 should be quiet as a mouse!

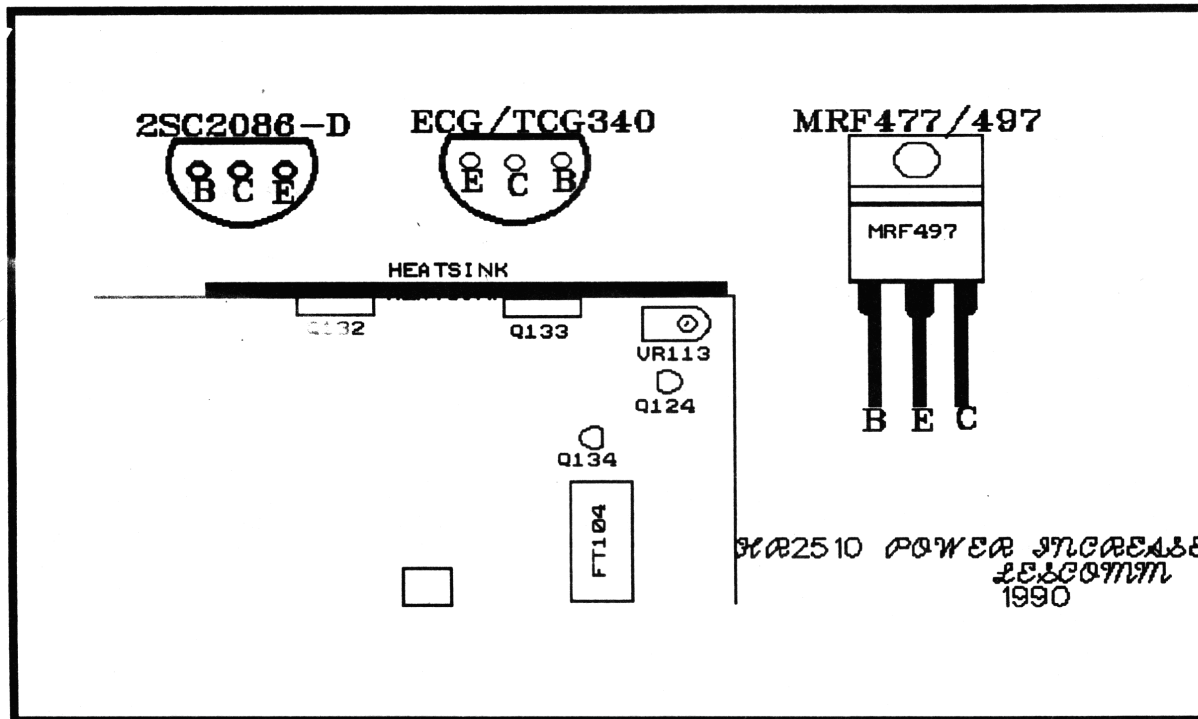
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● LESCOMM

- (1) Remove top and bottom covers. Watch out for the speaker wires.
- (2) Refer to diagram. Locate and remove Q132 & 134.
- (3) Replace Q134 with an ECG340 or a TCG340. **WARNING!!!** The leads of the two transistors are exactly opposite of each other. See diagram.
- (4) Replace Q132 with an MRF497, and don't forget the heat sink compound!.

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- (5) Remove C132. No replacement.
- (6) Remove C112 and C116.
- (7) Replace C112 with an 82pf cap, but place the new cap on the **bottom** of the board.
- (8) Replace C116 with a 100pf cap, but place this one on the bottom of the board also.
- (9) Reinstall the cover without the speaker with a couple of screws to hold it.



FIGURE# 7.....HR2510 POWER INCREASE

- (10) Connect power to the radio, and following alignment procedures, adjust the bias of Q132 to 80 +/-5 ma by adjusting VR112.
- (11) Inject a two tone signal into the microphone of the unit while transmitting into a dummy load. Set VR104 (ALC) for maximum output.
- (12) Again inject a 2 tone signal and transmit into a dummy load. Spread or contract coils L121, and L123 for highest power out in the center of the band.
- (13) Using a B&K power meter, yielded 52 watts PEP out at center of band.
- (14) Replace the other cover now after reconnecting speaker wires, and install all screws.

You'll notice that after all this transmitting and adjusting, the heat sink is just barely warm. One of the fringe benefits of this mod.